



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

MAY 23 2001

DOT-E 10996
(FIFTH REVISION)

EXPIRATION DATE: April 30, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: AeroTech, Inc. and Industrial
Solid Propulsion, Inc.
Las Vegas, NV

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of certain rocket motors and rocket motor reloading kits as Division 1.4C Articles, explosive, n.o.s., when shipped in quantities and packagings prescribed in this exemption. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Table, in that explosive articles with propellant charges in excess of 62.5 grams must be classed as Division 1.3C, except as specified herein.

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5. BASIS: This exemption is based on the application of AeroTech, Inc. and Industrial Solid Propulsion, Inc. dated April 20, 2001, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Articles, explosive, n.o.s. (rocket motors or rocket motor reloading kits, as appropriate)	1.4C	UN0351	II

7. SAFETY CONTROL MEASURES:

a. PACKAGING -

- (1) Inner Packaging - Fiberboard or pasteboard box; conductive plastic bag at least 0.075 mm (0.0029 in.) thick. Total weight of propellant contained in devices placed in an inner packaging may not exceed 1.4 kg. (3.08 lbs.)
- (2) Outer Packaging - A UN4G fiberboard box or a UN4C wood box. No more than four inner packages may be placed in one outer packaging.

- b. The total quantity of propellant in one rail car or motor vehicle may not exceed 45 Kg. (99 lbs.) net mass.
- c. Rocket motor cases may not be made of a material (e.g., metal) or of a configuration that would present a penetration hazard.

8. SPECIAL PROVISIONS:

- a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.
- b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

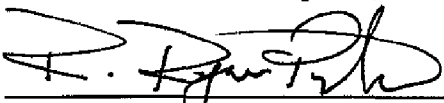
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and rail freight.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8 who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving fire, explosion or loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C. :



For Robert A McGuire
Associate Administrator for
Hazardous Materials Safety

MAY 23 2001

(DATE)

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Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: Watson/alb

JUN 29 2001

Continuation of DOT-E 10996 (5th Rev.) APPENDIX A

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Ellis Mountain Rocket Works Jacksonville, TX	6/10/2001	JUN 29 2001	4/30/2003
Kosdon Enterprises of Ventura California Ventura, CA	5/25/2001	JUN 29 2001	4/30/2003
Orbital Dynamics, Inc. Rio Rancho, NM	6/11/2001	JUN 29 2001	4/30/2003
Custom Analytical Engineering Systems (CAES), Inc. Flintstone, MD	5/25/2001	6/4/2001	4/30/2003
Vulcan Systems, Inc. Colorado Springs, CO	5/25/2001	6/4/2001	4/30/2003

for Ann Mazzullo
Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety